

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE

# STATEMENT BY APPLICANT

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**COMPLETE IF KNOWN**

Application Number	09/463,098
Filing Date	May 15, 2000
First Named Inventor	Nicosia, A. et al.
Group Art Unit	1627 1639
Examiner Name	Bhatti, T. <i>wt</i>
Attorney Docket Number	IT0019P

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## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Office	Number	Kind Code (if known)		
Tair		WO	94/26306		Chiron Corporation	11/24/1994
I		WO	95/14110		Santi	05/26/1995
		WO	94/26886		Istituto di Ricerche di Biologia Molecolare P. Angeletti S.P.A.	11/24/1994
		WO	95/11922		Affymax Technologies N.V.	05/04/1995
V		WO	92/01047		Cambridge Antibody Technology Limited; Medical Research Council	01/23/1992

Examiner  
Signature

T. W. Wrentham

Date  
Considered

5/14/04

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Group Art Unit	1627
Examiner Name	Bhatti, T. Weiss
Attorney Docket Number	IT0019P

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## OTHER NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
TW	A	Cormack, B. et al. "Regional Codon Randomization: Defining a TATA-Binding Protein Surface Required for RNA Polymerase III Transcription", Science, 1993, Vol. 262, pp. 244-248
	B	Cortese, R. et al. "Epitope discovery using peptide libraries displayed on phage", Trends Biotechnol, 1994, Vol. 12, pp. 262-267
	C	Cortese, R. et al. "Selection of biologically active peptides by phage display of random peptide libraries", Current Opinion in Biotechnology, 1996, Vol. 7, pp. 616-621
	D	Farci, P. et al. "Prevention of hepatitis C virus infection in chimpanzees after antibody-mediated <i>in vitro</i> neutralization", Proc Natl Acad Sci USA, 1994, Vol. 91, pp. 7792-7796
	E	Farci, P. et al. "Prevention of hepatitis C virus infection in chimpanzees by hyperimmune serum against the hypervariable region 1 of the envelope 2 protein", Proc Natl Acad Sci USA, 1996, Vol. 93, pp. 15394-15399
	F	Folgori, A. et al. "A general strategy to identify mimotopes of pathological antigens using only random peptide libraries and human sera", The EMBO Journal, 1994, Vol. 13, pp. 2236-2243
	G	Major, M. et al. "DNA-Based Immunization with Chimeric Vectors for the Induction of Immune Responses against the Hepatitis C Virus Nucleocapsid", Journal of Virology, 1995, Vol. 69, pp. 5798-5805
	H	Mecchia, M. et al. "Nonrheumatoid IgM in Human Hepatitis C Virus-Associated Type II Cryoglobulinemia Recognize Mimotopes of the CD4-Like LAG-3 Protein", The Journal of Immunology, 1996, Vol. 157, pp. 3727-3736
	I	Meola, A. et al. "Derivation of Vaccines From Mimotopes. Immunologic Properties of Human Hepatitis B Virus Surface Antigen Mimotopes Displayed on Filamentous Phage", The Journal of Immunology, 1995, Vol. 154, pp. 3162-3172
	J	Pessi, A. et al. "Application of the Continuous-flow Polyamide Method to the Solid-phase Synthesis of a Multiple Antigen Peptide (MAP) based on the Sequence of a Malaria Epitope", J of Chem Soc, Chemical Communications, 1990, Vol. 1, pp. 8-9
	K	Prezzi, C. et al. "Selection of Antigenic and Immunogenic Mimics of Hepatitis C Virus Using Sera from Patients", The Journal of Immunology, 1996, Vol. 156, pp. 4504-4513
	L	Scarselli, E. et al. "Occurrence of Antibodies Reactive with More than One Variant of the Putative Envelope Glycoprotein (gp70) Hypervariable Region 1 in Viremic Hepatitis C Virus-Infected Patients", Journal of Virology, 1995, Vol. 69, pp. 4407-4412
	M	Shimizu, Y. et al. "Evidence for <i>in vitro</i> replication of hepatitis C virus genome in a human T-cell line", Proc Natl Acad Sci USA, 1992, Vol. 89, pp. 5477-5481
	N	Simmonds, P. et al. "Classification of hepatitis C virus into six major genotypes and a series of subtypes by phylogenetic analysis of the NS-5 region", Journal of General Virology, 1993, Vol. 74, pp. 2391-2399
✓	O	Tam, J. "Synthetic peptide vaccine design: Synthesis and properties of a high-density multiple antigenic peptide system", Proc Natl Acad Sci USA, 1988, Vol. 85, pp. 5409-5413

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Examiner Name	Bhatti, T.
Attorney Docket Number	IT0019P

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## OTHER NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
TW	P	Weiner, A. et al. "Variable and Hypervariable Domains Are Found in the Regions of HCV Corresponding to the Flavivirus Envelope and NS1 Proteins and the Pestivirus Envelope Glycoproteins", Virology, 1991, Vol. 180, pp. 842-848
	Q	Winter G. et al. "Man-made antibodies", Nature, 1991, Vol. 349, pp. 293-299
	R	Kato, N. et al. "Characterization of Hypervariable Regions in the Putative Envelope Protein of Hepatitis C Virus", Biochem and Biophys Res Commun, 1992, Vol. 189, pp. 119-127
	S	Takeuchi, K. et al. "Hepatitis C viral cDNA clones isolated from a healthy carrier donor implicated in post-transfusion non-A, non-B hepatitis", Gene, 1990, Vol. 91, pp. 287-291
	T	Hohne, M. et al. "Sequence variability in the env-coding region of hepatitis C virus isolated from patients infected during a single source outbreak", Arch Virol, 1994, Vol. 137, pp. 25-34
	U	Wang, Y. et al. "Prevalence, Genotypes, and an Isolate (HC-C2) of Hepatitis C Virus in Chinese Patients With Liver Disease", Journal of Medical Virology, 1993, Vol. 40, pp. 254-260
	V	Okamoto, H. et al. "Molecular and clinical characteristics of the hepatitis C virus genotype "2c" found in Italians in Italy and France", International Hepatology Communications", 1995, Vol. 3, pp. 161-165
	W	Kato, N. et al. "Molecular cloning of the human hepatitis C virus genome from Japanese patients with non-A, non-B hepatitis", Proc Natl Acad Sci USA, 1990, Vol. 87, pp. 9524-9528
	X	Okamoto, H. et al. "The entire nucleotide sequence and classification of a hepatitis C virus isolate of a novel genotype from an Indonesian patient with chronic liver disease", Journal of General Virology, 1994, Vol. 75, pp. 629-635
	Y	Kato, N. et al. "Marked sequence diversity in the putative envelope proteins of hepatitis C viruses", Virus Research, 1992, Vol. 22, pp. 107-123
	Z	Sarashina, T. et al. "Nucleotide sequence of the hepatitis C virus genome from a patient negative for anti-HCV by the first generation antibody assay", Nucleic Acids Reserach, 1993, Vol. 21, pp. 1037
	AA	Tokita, H. et al. "Hepatitis C virus variants from Vietnam are classifiable into the seventh, eighth, and ninth major genetic groups", Proc Natl Acad Sci USA, 1994, Vol. 91, pp. 11022-11026
	BB	Abe, K. et al. "Genomic characterization and mutation rate of hepatitis C virus isolated from a patient who contracted hepatitis during an epidemic of non-A, non-B hepatitis in Japan", Journal of General Virology", 1992, Vol. 73, pp. 2725-2729
	CC	Okamoto, H. et al. "Characterization of the genomic sequence of type V (or 3a) hepatitis C virus isolates and PCR primers for specific detection", Journal of General Virology, 1993, Vol. 74, pp. 2385-2390
✓	DD	Seki, M. et al. "Effective production of hepatitis C virus core antigen having high purity in <i>Escherichia coli</i> ", Journal of Biotechnology, 1995, Vol. 38, pp. 229-241

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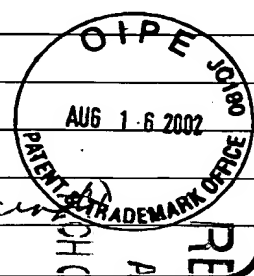
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Application Number	09/463,098
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First Named Inventor	Nicosia, A. et al.
Group Art Unit	1629
Examiner Name	Bhatti, T. <i>Wickens</i>
Attorney Docket Number	IT0019P



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**OTHER NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication
<i>TAW</i>	EE	Kato, N. et al. Accession No. D12967 downloaded from Genbank VRL 28-May-1999
	FF	Takeuchi, K. et al. Accession Nos. D00574, D90080, M57585 downloaded from Genbank VRL 02-February-1999
	GG	Hall, W. et al. Accession No. L19383 downloaded from Genbank VRL 11-August-1994
	HH	Ogata, N. et al. Accession No. M62381 downloaded from Genbank VRL 10-June-1996
	II	Odeberg, J. et al. Accession No. U24616 downloaded from Genbank VRL 23-February-1996
	JJ	Odeberg, J. et al. Accession No. U24607 downloaded from Genbank VRL 23-February-1996
	KK	Kato, N. Accession No. X60573 downloaded from Genbank VRL 05-April-1992
	LL	Kato, N. et al. Accession No. D43650 downloaded from Genbank VRL 10-November-1997
	MM	Hohne, M. et al. Accession No. S73387 downloaded from Genbank VRL 22-August-2000
	NN	Wang, Y. et al. Accession No. D10934 downloaded from Genbank VRL 03-February-1999
	OO	Okamoto, H. et al. Accession No. D31972 downloaded from Genbank VRL 07-February-1999
	PP	Greene, W. et al. Accession No. U14231 downloaded from Genbank VRL 27-January-1995
	QQ	Odeberg, J. et al. Accession No. U24602 downloaded from Genbank VRL 23-February-1996
	RR	Hall, W. et al. Accession No. L19380 downloaded from Genbank VRL 11-August-1994
<i>✓</i>	SS	Liu, K. et al. Accession No. M74888 downloaded from Genbank VRL 02-August-1993

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*T. Wickens*

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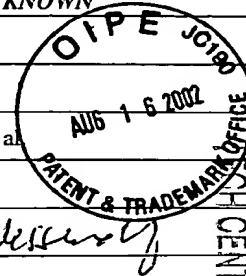
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**OTHER NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
<i>TW</i>	TT	Han, J. et al. Accession No. L12354 downloaded from Genbank VRL 27-July-1994
	UU	Scarselli, E. et al. Accession No. X79672 downloaded from Genbank VRL 28-June-1995
	VV	Kato, N. et al. Accession No. D12952 downloaded from Genbank VRL 28-May-1999
	WW	Kato, N. et al. Accession No. D16566 downloaded from Genbank VRL 04-February-1999
	XX	Chen, P. et al. Accession No. M84754 downloaded from Genbank VRL 14-July-1994
	YY	Okamoto, H. et al. Accession No. D14853 downloaded from Genbank VRL 01-February-2000
	ZZ	Kato, N. et al. Accession No. S24080 downloaded from Genbank VRL 29-May-1998
	AAA	Sarashina, T. et al. Accession No. S35631 downloaded from Genbank VRL 07-May-1999
	BBB	Weiner, A. et al. Accession No. S62395 downloaded from Genbank VRL 25-August-1993
	CCC	Yamaguchi, K. et al. Accession No. S70291 downloaded from Genbank VRL 23-September-1994
	DDD	Tokita, H. et al. Accession Nos. D88472, D17503 downloaded from Genbank VRL 07-February-1999
	EEE	Abe, K. et al. Accession No. D10687 downloaded from Genbank VRL 01-February-2000
	FFF	Kato, N. et al. Accession No. D43651 downloaded from Genbank VRL 10-November-1997
	GGG	Okamoto, H. et al. Accession No. D14305 downloaded from Genbank VRL 01-February-2000
<i>✓</i>	HHH	Kato, N. Accession No. X60590 downloaded from Genbank VRL 05-April-1992

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*T. Wessing*

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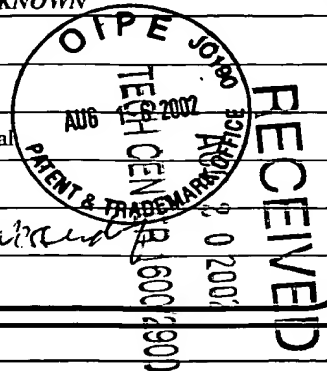
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<i>TW</i>	III	Seki, M. et al. Accession No. D30613 downloaded from Genbank VRL 07-February-1999
	JJJ	Weiner, A. Accession No. X53131 downloaded from Genbank VRL 05-August-1995
	KKK	Odeberg, J. et al. Accession No. U24619 downloaded from Genbank VRL 23-February-1996
	LLL	Ogata, N. et al. Accession No. M62382 downloaded from Genbank VRL 10-June-1996
	MMM	Tokita, H. et al. Accession Nos. D88474, D17505 downloaded from Genbank VRL 07-February-1999
	NNN	Scarselli, E. et al. Accession No. X79669 downloaded from Genbank VRL 23-July-1997
	OOO	Jones, R. et al. Accession No. A48766 downloaded from Munich Information Center for Protein Sequences (MIPS) 19-May-1995
	PPP	Okamoto, R. et al. Accession No. PQ0835 downloaded from MIPS 14-July-1994
	QQQ	Higashi, R. et al. Accession No. D48776 downloaded from MIPS 07-April-1994
	RRR	Higashi, R. et al. Accession No. C48776 downloaded from MIPS 07-April-1994
<i>✓</i>	SSS	Kato, N. et al. Accession No. PC1193 downloaded from MIPS 30-September-1993

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